Light Armored Vehicle - Command and Control Upgrade

Test Integration Working Group

06 Jul 05

Agenda

0900-0905	Introductions	
0905-0915	Opening Remarks	Bill Ross
0915-0945	Program Overview	Bill Ross
0945-1015	Test Overview	Mike Canavan
1015-1030	Break	
1030-1100	MCTSSA Capabilities	Ray Clermont
1100-1130	EPG Capabilities	Miguel Cimadevilla
	Individual Contractor Sessions	
1130-1230	Contractor ‘A’ Session	
1230-1330	Lunch	
1330-1430	Contractor ‘B’ Session	
1430-1500	MCOTEA Involvement	Dave Thomas
1500-1545	Round Table Discussion	All
1545-1600	Break	
1600-????	Action Items and Wrap-up	

LAV Program Manager's Office

- Col John Bryant, USMC is PM
- Dr Bob Lusardi is DPM
- PMO consists of 11 Marines and 67 civilians
  - Located at TACOM in Warren, MI
  - Have personnel at both Albany and Barstow
- Col Bryant has dual reporting chain
  - CG, TACOM
  - CG, MARCORSYSCOM
- LAV-C2 Upgrade team reports to Joe Wagner, Chief, International Programs and LAV Upgrades Division

LAV-C2 Upgrade Team

- Core members
  - LtCol John Manza – Operations
  - Derald Schnepp – Systems engineering
  - Brad Paul – Engineering
  - John Polanco – Logistics, comm equipment, security
  - Capt Ernie Govea – Finance
  - Doug Cleveland – Contracting
  - George Theodorou – Ops research, cost estimates
  - Terri Evans - Budgeting
  - Bill Ross – Cat herder
- Matrix Support
  - Dr. Paul Richardson – Networks
  - Mike Canavan – Testing
  - Mike Smith – Systems
  - Pete Mager/Jack Smithmyer – Cosite, EMI

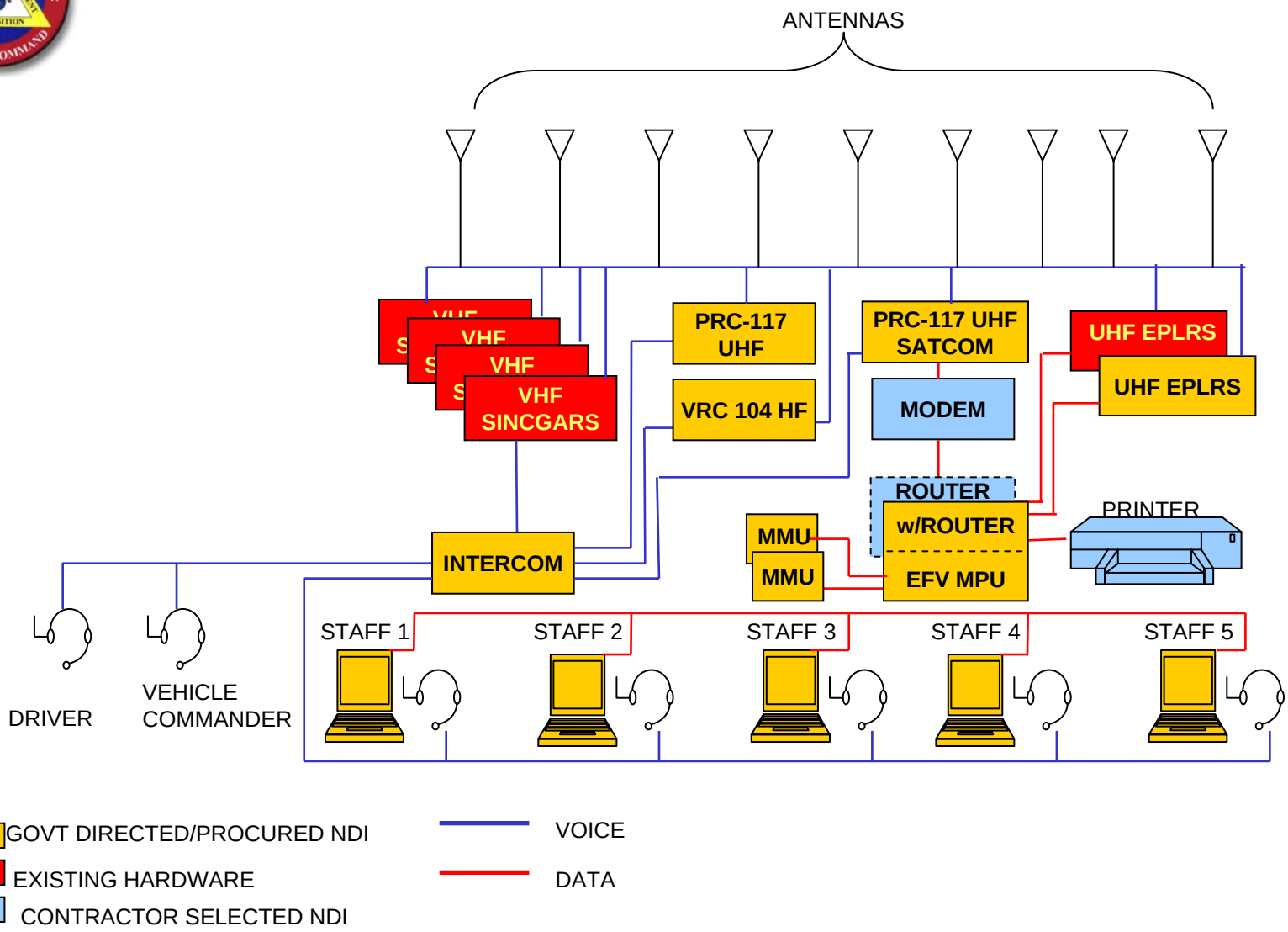
Program Background

- LAV-C2 first fielded in 1986 as a voice-only communications platform with 4 VHF, 1 HF and 1 UHF radios
  - MDACT and EPLRS added later
- Current LAV-C2 deficiencies:
  - Poor ability to send and receive digital battlefield information
    - Limited to single MDACT/C2PC via EPLRS
    - No AFATDS
  - No SATCOM
  - No HF Automatic Link Establishment (ALE)
  - Intercommunications system is obsolete

Selected Architecture

- One Server (EFV Multi-Processor Unit)
  - AFATDS and C2PC Gateway software host
  - Open architecture to allow additional programs/functions
- Five Laptops (Four Miltope and one Tadpole)
  - "Client" workstation from server
  - "Stand alone" workstation, if server fails
- One Intercom to support a minimum of 16 nodes
  - Seven crew and nine radio nodes
- Radios
  - Keeping 4 VHF SINCGARS
  - Updating 1 HF to PRC-104
  - Updating 1 UHF to PRC-117
  - Adding 1 SATCOM (PRC-117)
  - Adding 1 EPLRS (now will have 2)

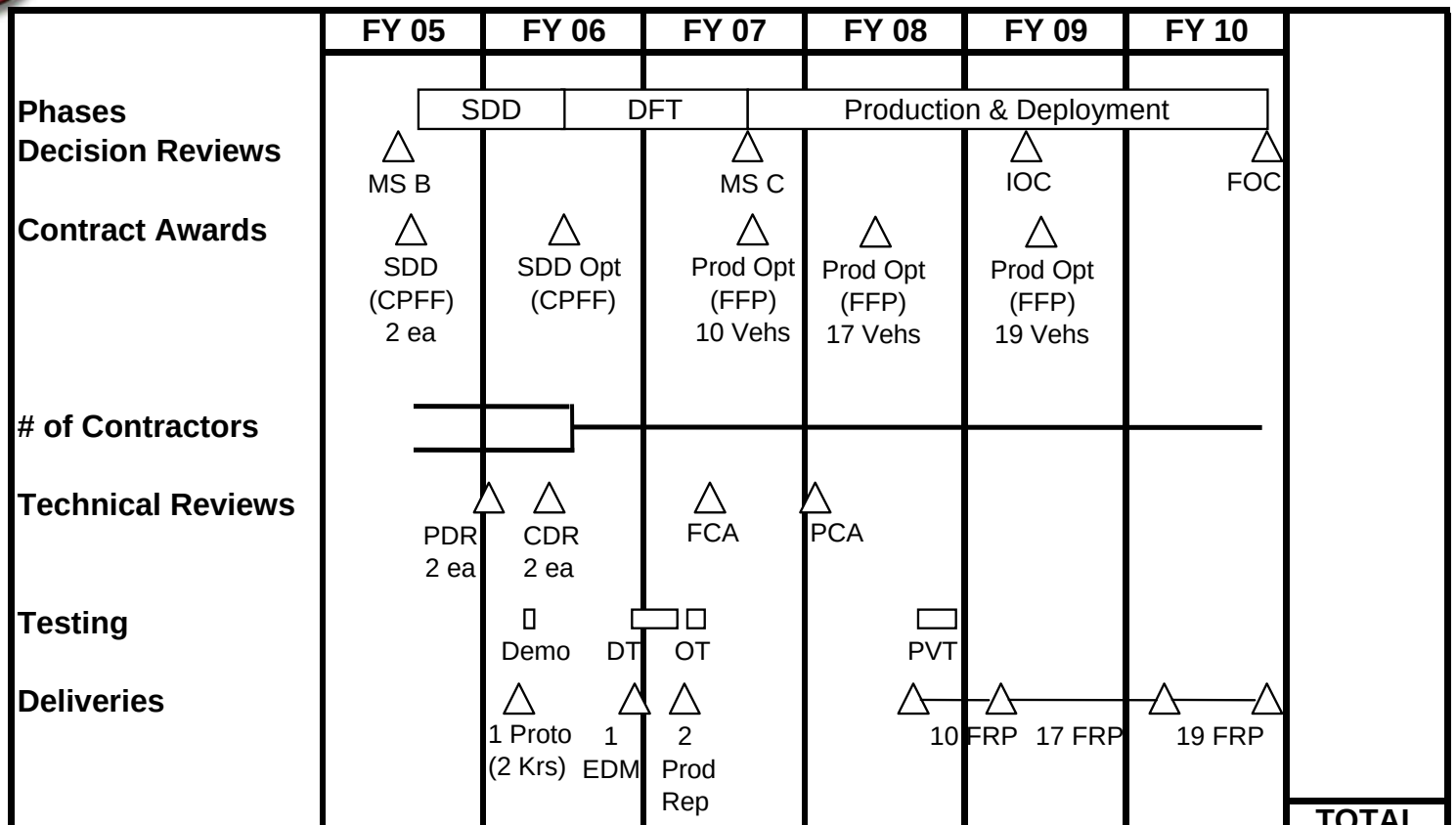
LAV-C2 Architecture



Acquisition Strategy

- Strategy approved by MDA on 15 Feb 05
- Three phase program using NDI components
- Phase 1: Two competing contractors will integrate and demonstrate system performance on one vehicle each
- Phase 2: Down-select to a single source to complete development
  - DT/OT
  - Logistics product development
- Phase 3: Production of 50 vehicles
  - IOC is scheduled for FY09
  - FOC is scheduled for FY10

Program Structure Chart



							TOTAL
RDT&E	12.484	11.061	2.760				**26.305**
PMC			18.147	30.487	30.75	0.754	**80.138**
O&MMC	0.025		0.160	0.175			**0.360**
TOTAL	**12.509**	**11.061**	**21.067**	**30.662**	**30.75**	**0.754**	**106.803**